

Patent Abstra ts of Japan

PUBLICATION NUMBER

05258622

PUBLICATION DATE

08-10-93

APPLICATION DATE

09-03-92

APPLICATION NUMBER

04085056

APPLICANT:

CENTRAL RES INST OF ELECTRIC

POWER IND;

INVENTOR:

TSUKAMOTO OSAMI:

INT.CL.

H01B 12/08 H01F 5/08

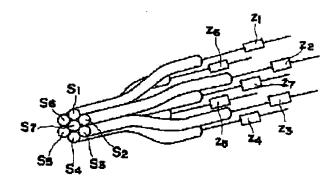
TITLE

SUPERCONDUCTIVE STRANDED

WIRE, SUPERCONDUCTIVE CABLE,

AND POWER MACHINERY WINDING

USING THEM



ABSTRACT:

PURPOSE: To equalize the critical current flowing through respective strands of a superconductive stranded wire or a superconductive cable or each subcable so as to enhance the critical current.

CONSTITUTION: Impedances Z_1 to Z_7 as current controlling means are added to respective strands S_1 to S_7 of a superconductive stranded wire S or a superconducting cable or each subcable, or twisting of respective strands or subcables are locally widened so as to enlarge distances between them resulting in the reduction in mutual inductances between respective strands or subcables, in order to equalize the current flowing in respective strands S_1 to S_7 or subcables so as to eliminate degradation. Further, these superconductive stranded wires or superconductive cables are used for windings in power machinery, for example a coil in a transformer.

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